

Parentheses

Write a program that takes the String input, then do the following:

- Replace (with [
- Replace [with (
- Replace) with]
- Replace] with)

And then display the result on the screen.

Input

A single line of type String.

Output

A String with the parentheses replaced as specified above.

Example

Input (from keyboard)	Output (on screen)
[[a + (b + [c / d] - e) + f] + 4]	((a + [b + (c / d) - e] + f) + 4)
no parentheses	no parentheses